



HMD Transportation Advisory Council

May 11, 2011

BRIDGE REHABILITATION

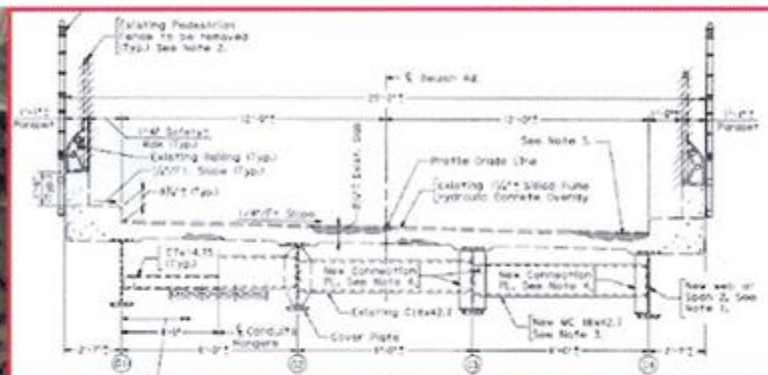
BRIDGE ON RTE. 675 (BEULAH RD.)

OVER DULLES TOLL & ACCESS ROAD

FAIRFAX COUNTY

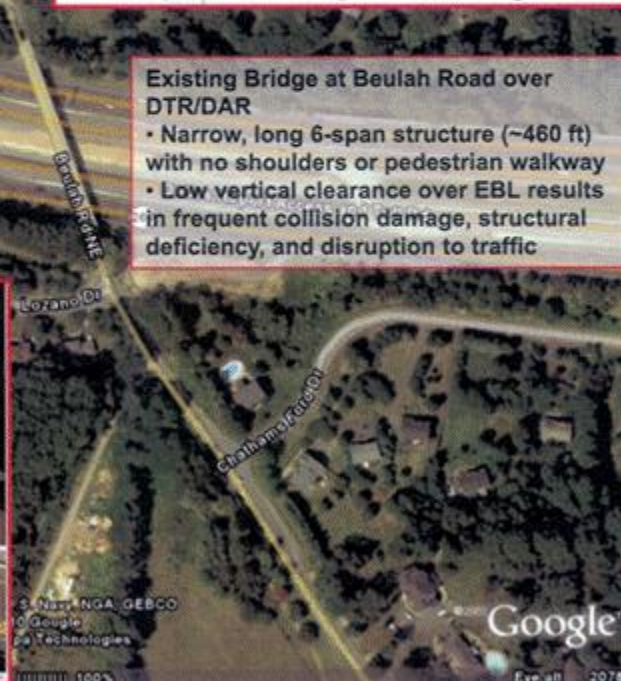
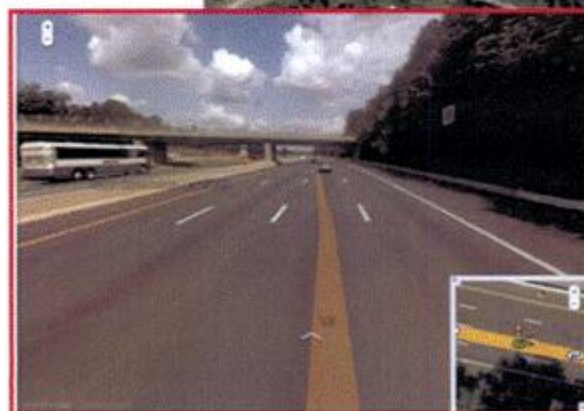
PROJ. No. 0675-029-944, Pier 3 Ext. (UPC 99540)

PROJ. No. 0675-029-945, Span 2 & Bridge Wid. (UPC 99541)



Existing Bridge at Beulah Road over
DTR/DAR

- Narrow, long 6-span structure (~460 ft) with no shoulders or pedestrian walkway
- Low vertical clearance over EBL results in frequent collision damage, structural deficiency, and disruption to traffic



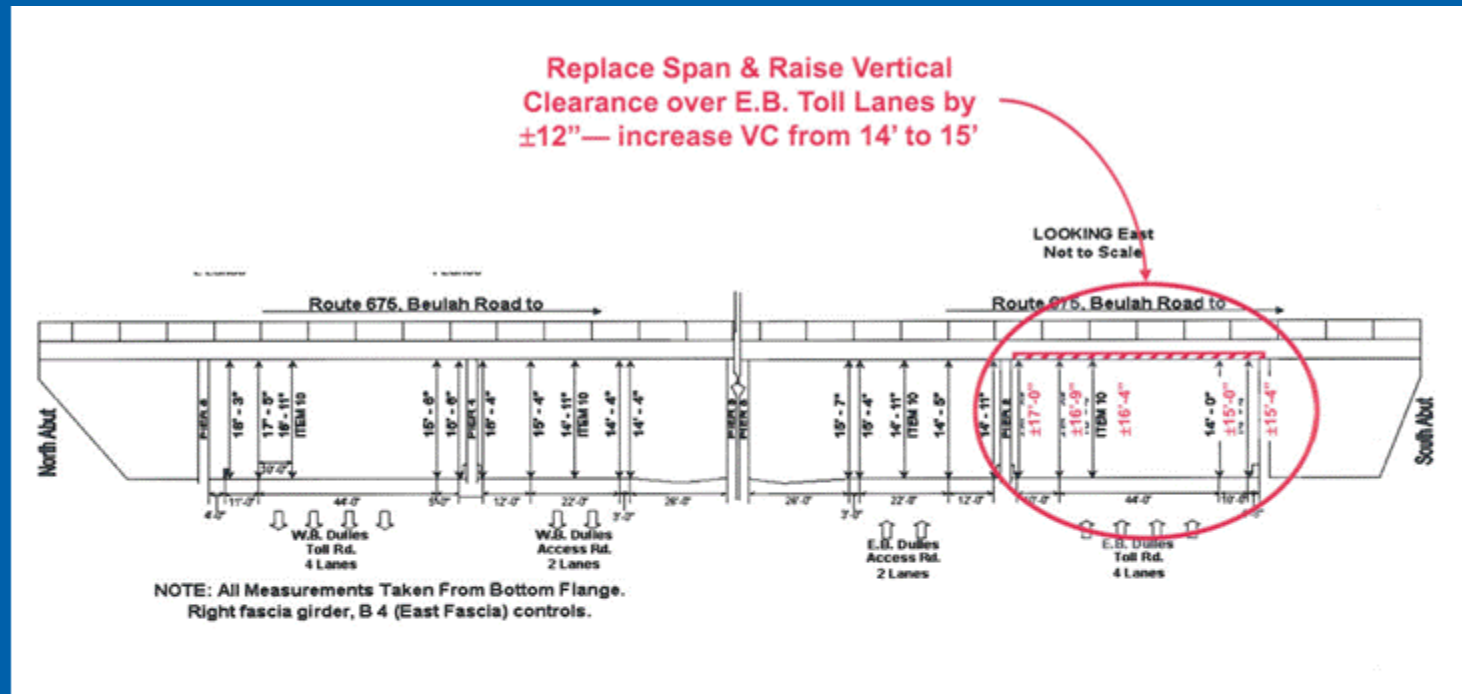


Span 2, Beam 4: Crack in bottom flange and web due to November 2010 collision impact



Span 2, Beam 4: Temporary repair completed in November 2010

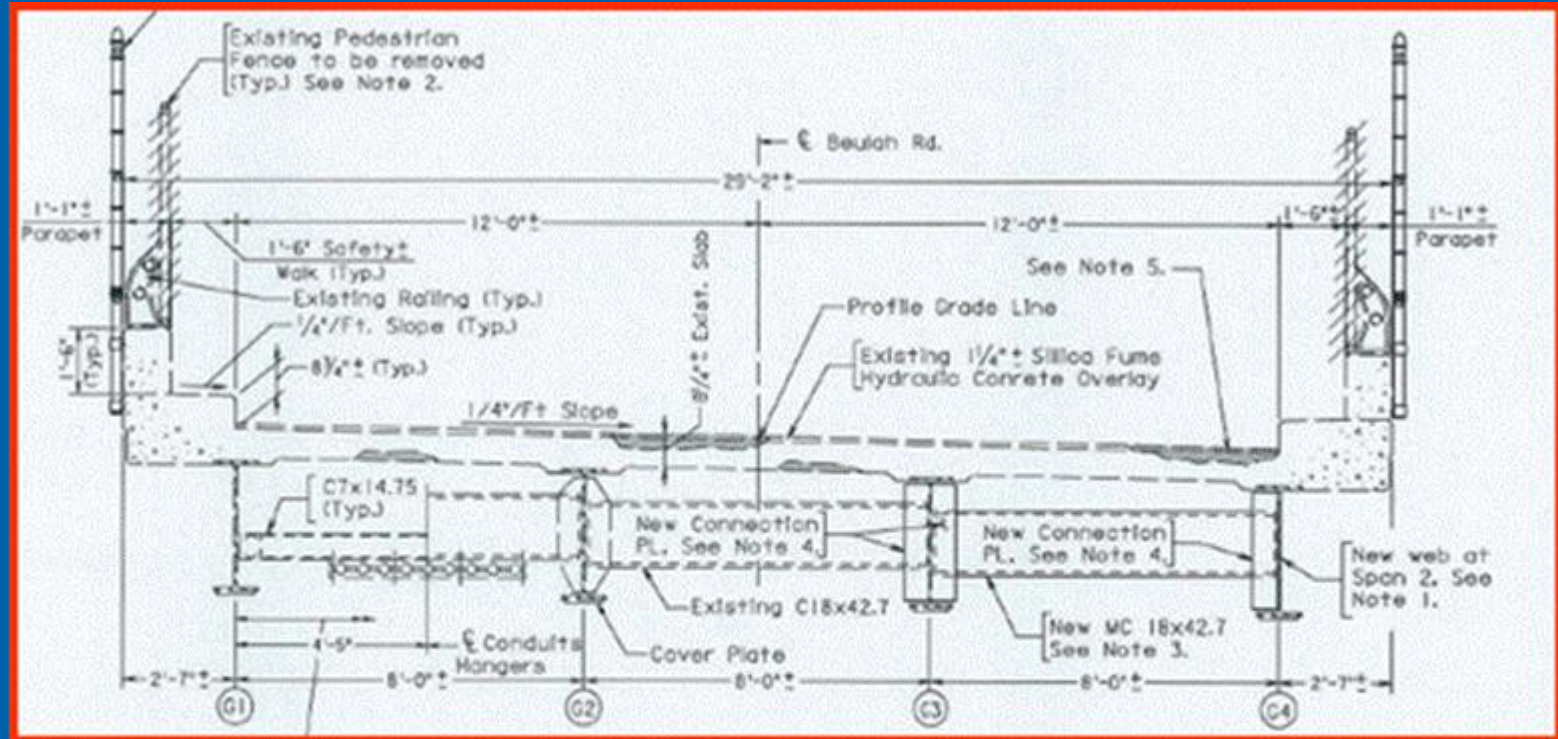
SPAN REPLACEMENT OVER EB DTR



Entire Span 2 over EB DTR will be replaced to increase existing vertical clearance

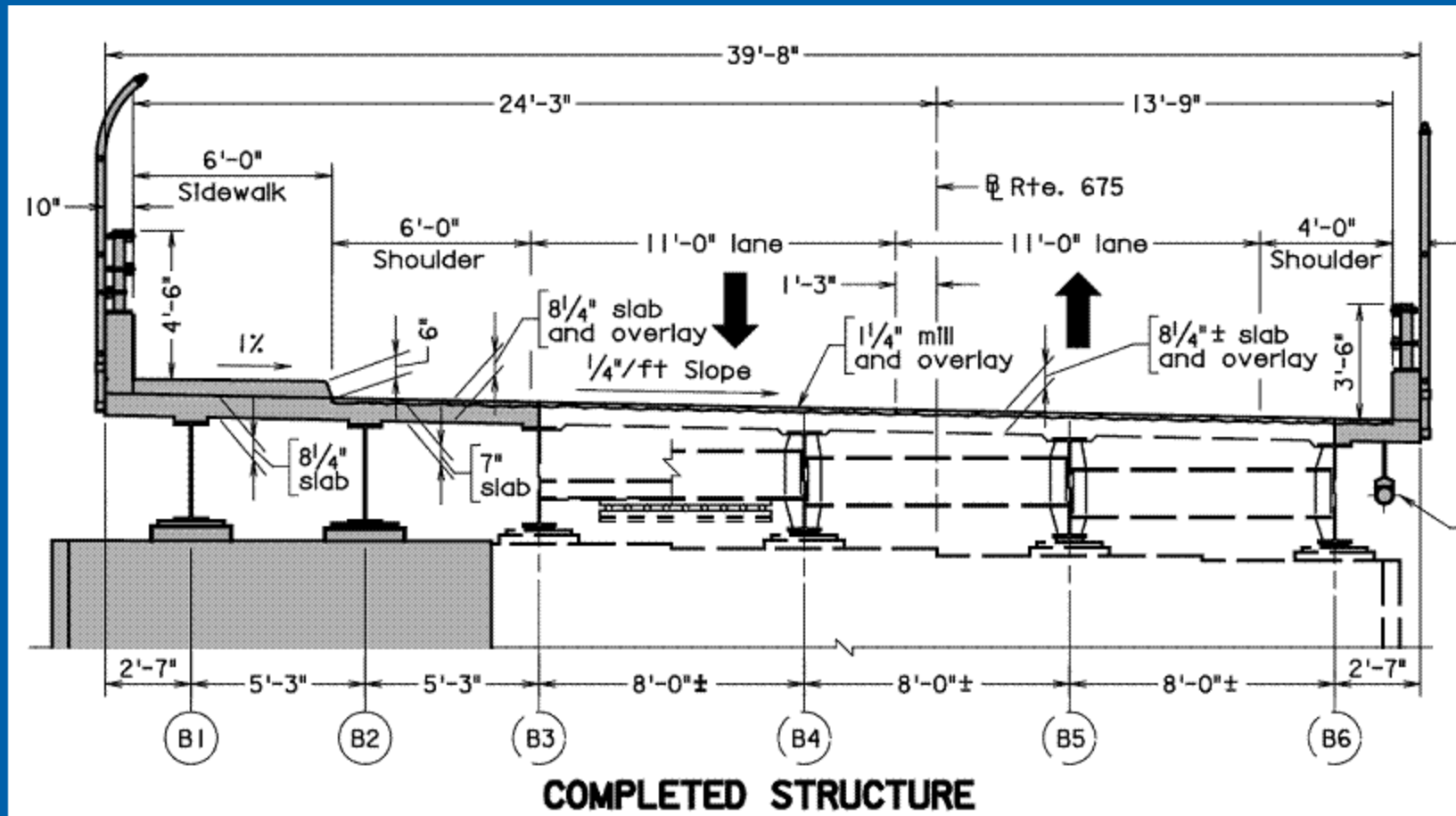
New vertical clearance increased from 14 ft to 15 ft will require a design exception.

EXISTING BRIDGE TYPICAL SECTION



Existing bridge section consist of 24'-0" clear roadway and 1'-6" wide safety walks each side of the bridge.

EXISTING BRIDGE TYPICAL SECTION

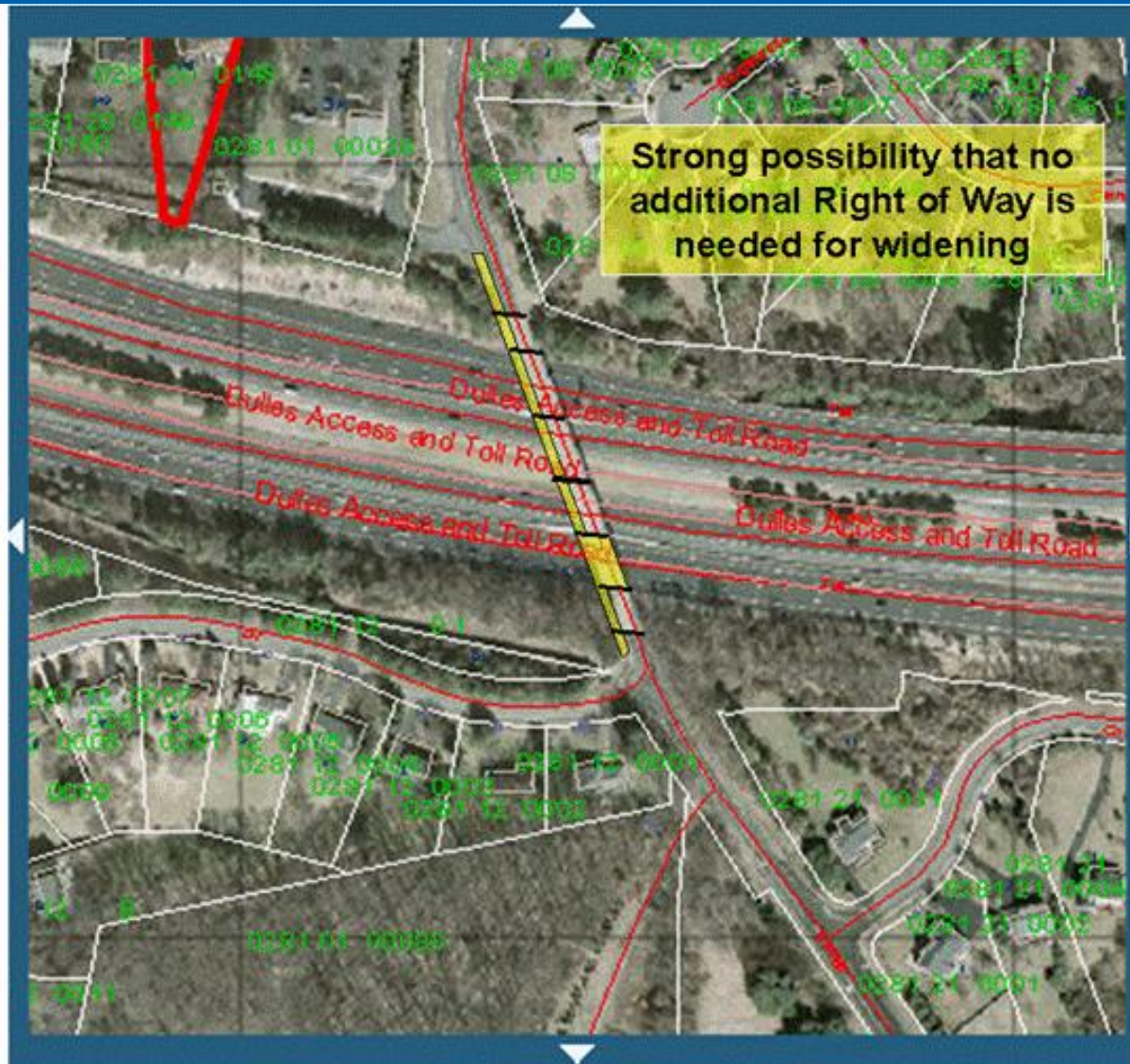


- Widen bridge to maintain 2 traffic lanes during construction
- Use additional deck area to add exterior shoulders for each lane plus a sidewalk

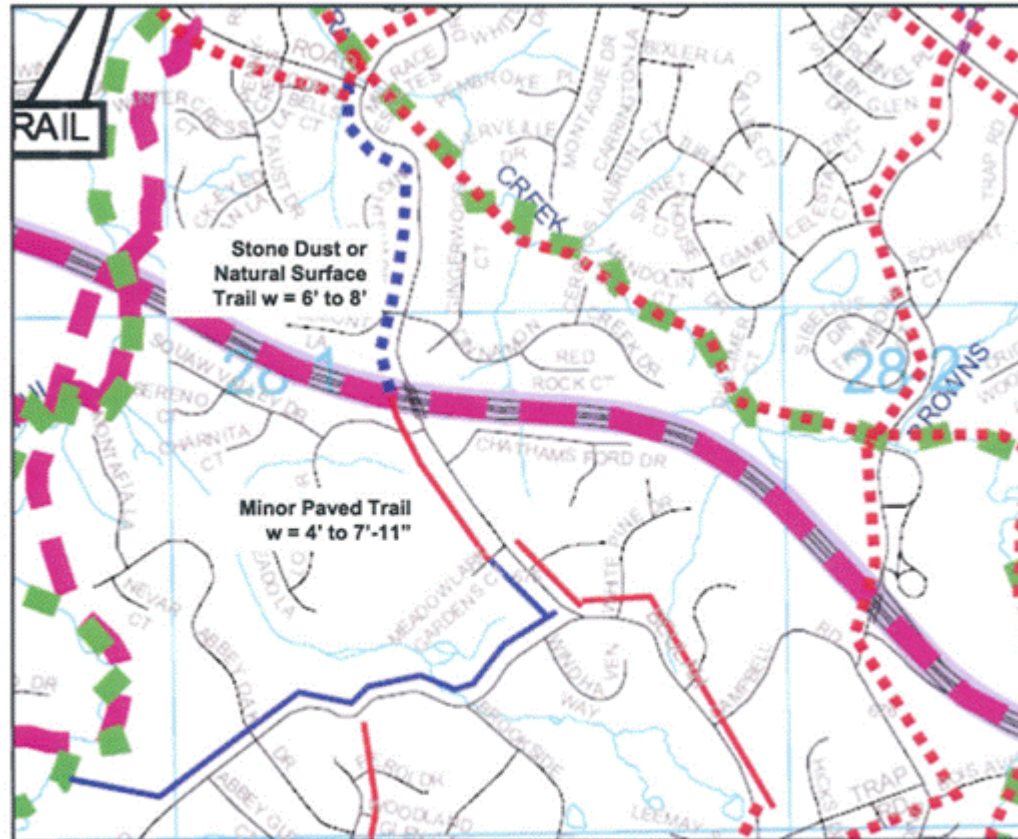
Aerial View of Proposed Widening & Span Replacement



Proposed widening to west side, span 2 replacement and extended sidewalks



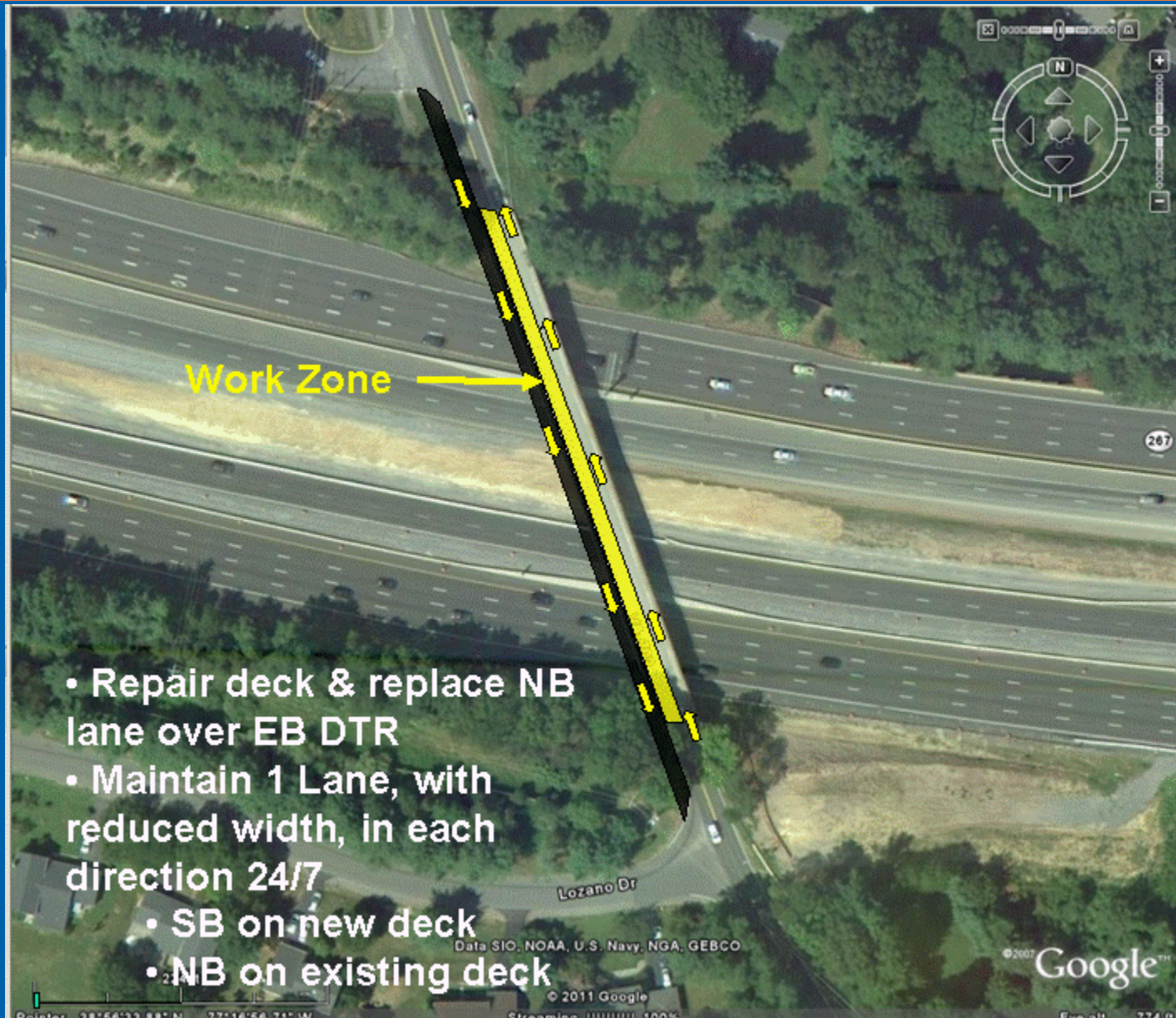
TRAIL MAP



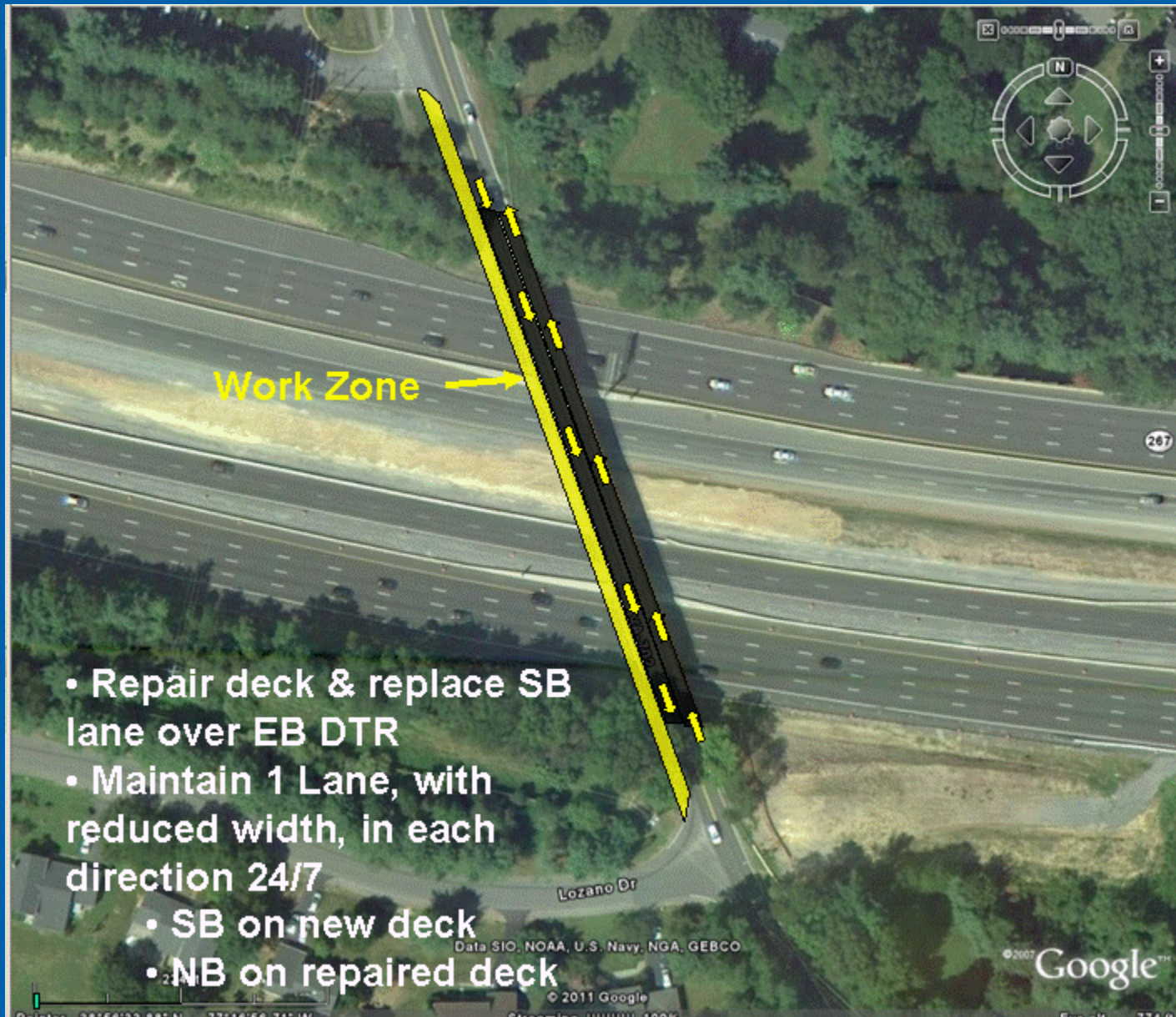
Minor Paved Trail (See Note 3 below)

Minor Paved Trail with parallel Natural Surface or Stone Dust Trail (See Note 4 below)









Proposed Project Schedule

Complete Design	September 2011
Pier 3 Extension	June-August 2011
Advertise Project	January 2012
Start Construction	April 2012
End Construction	August 2013

Cost Estimate

	Approximate Cost Estimate			
	PE	R/W	CN	Total
Pier 3 Extension	\$110,000	0	\$220,000	\$330,000
Span 2 Repl & Bridge Widening	\$609,000	0	\$3,738,000	\$4,347,000
TOTAL	\$719,000	0	\$3,958,000	\$4,677,000

THANK YOU